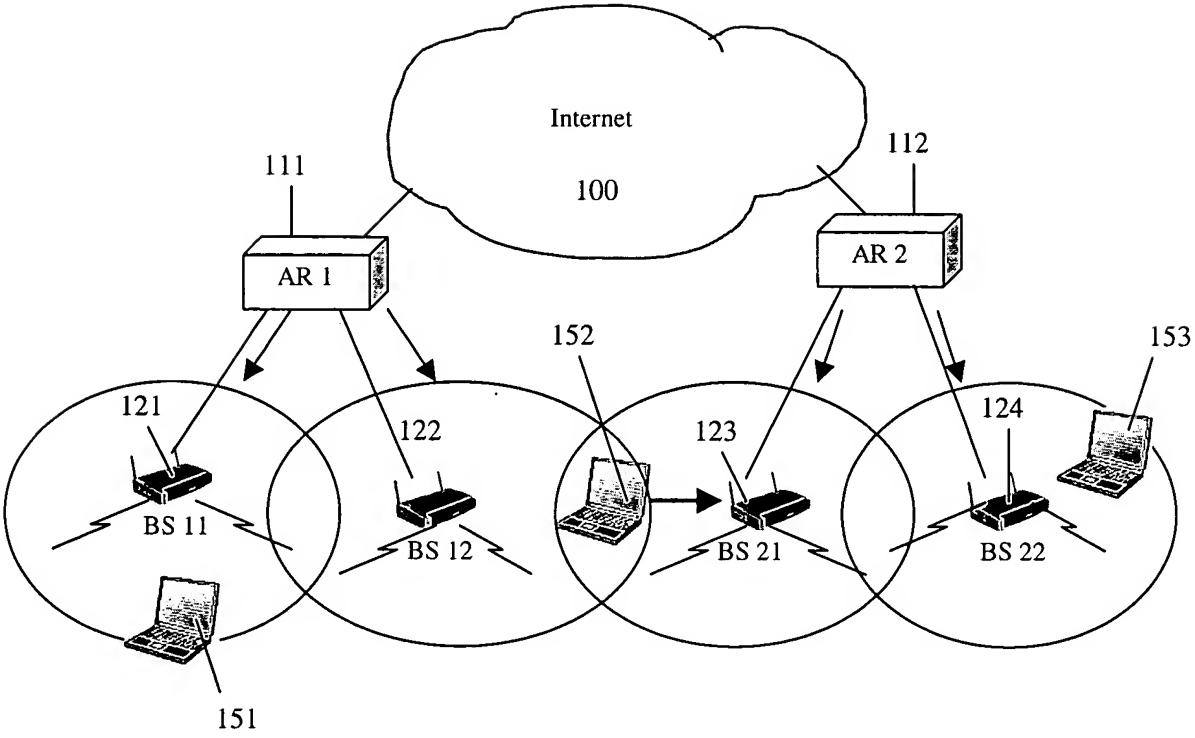
Internet
100
111
112
AR 1
AR 2
152
153
121
122
123
124
BS 11
BS 12
BS 21
BS 22
151

FIG 1

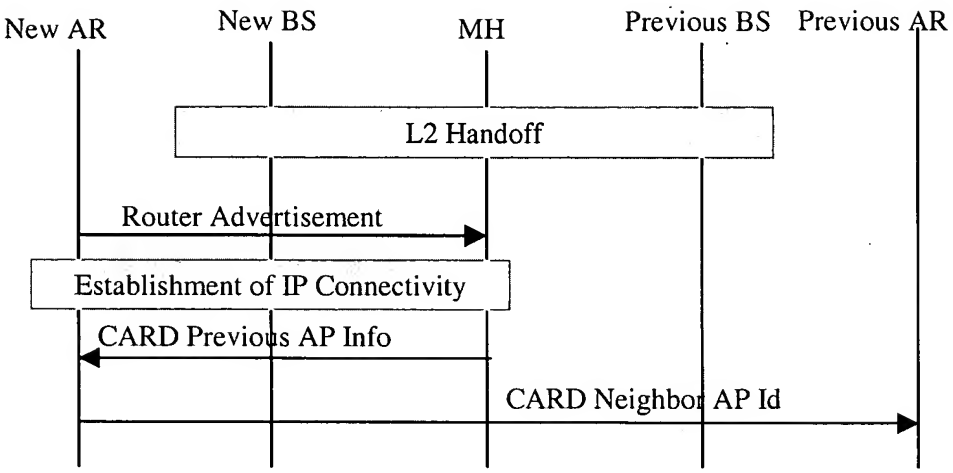

FIG 2

(PRIOR ART)

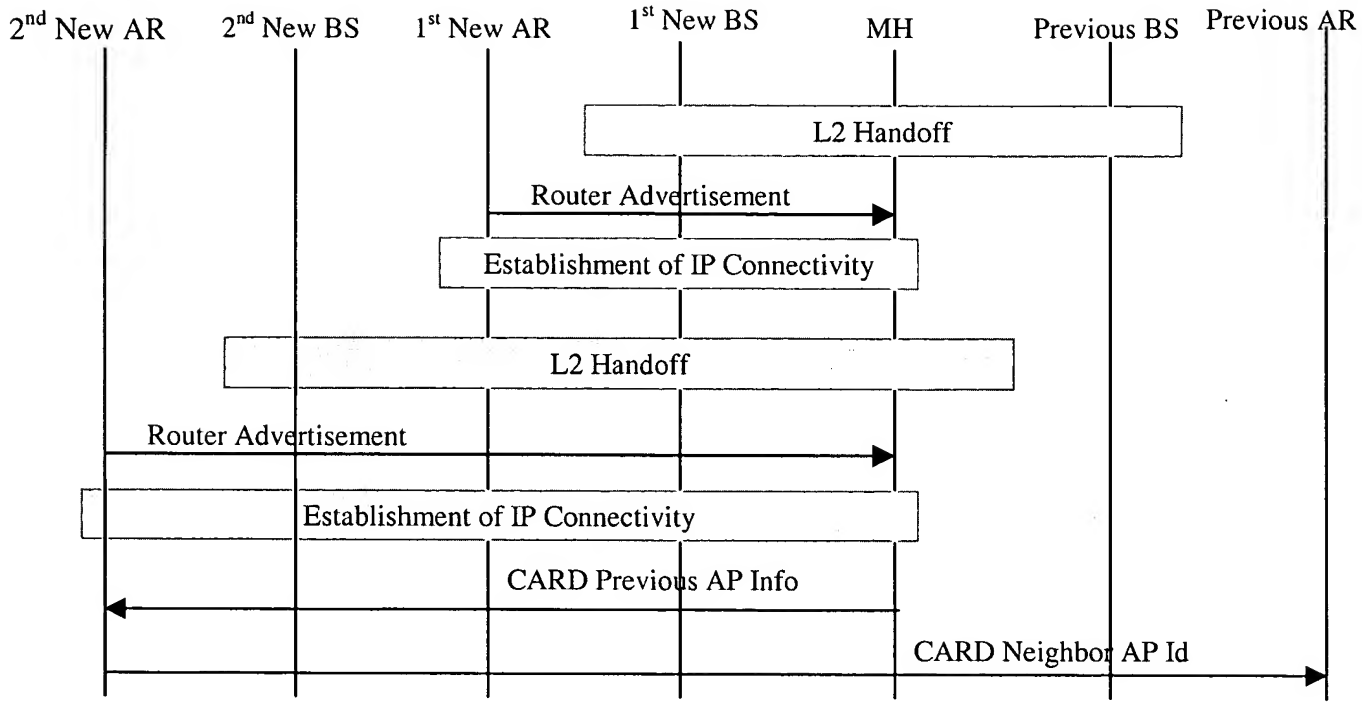
2nd New AR
2nd New BS
1st New AR
1st New BS
MH
Previous BS
Previous AR
L2 Handoff
Router Advertisement
Establishment of IP Connectivity
L2 Handoff
Router Advertisement
Establishment of IP Connectivity
CARD Previous AP Info
CARD Neighbor AP Id

FIG 3

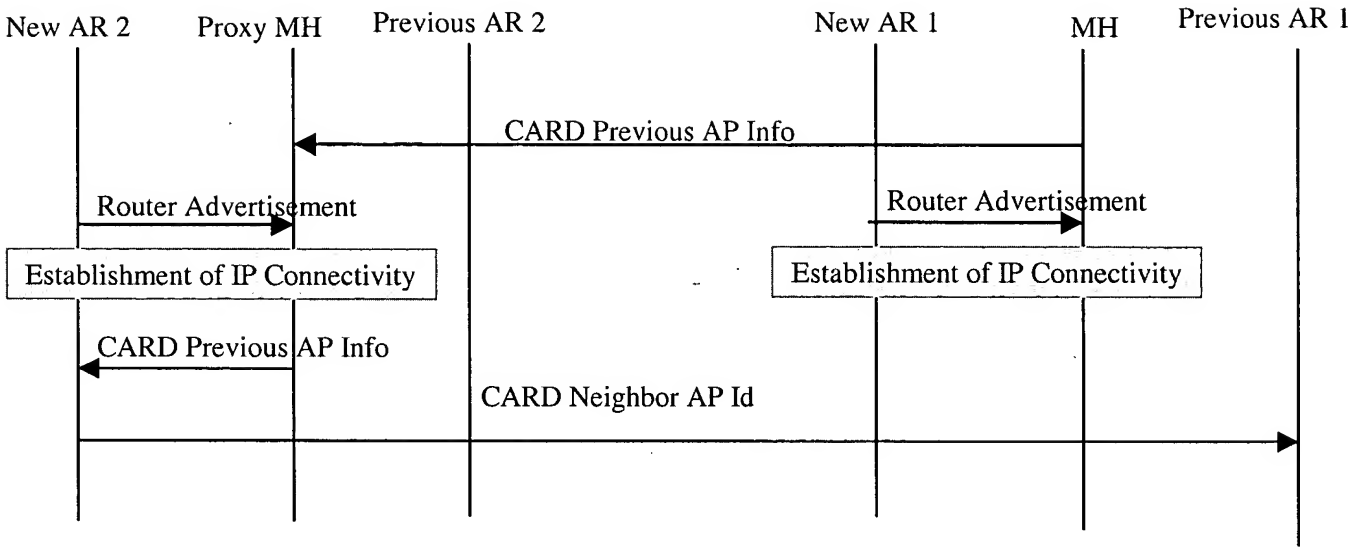
New AR 2
Proxy MH
Previous AR 2
New AR 1
MH
Previous AR 1
CARD Previous AP Info
Router Advertisement
Router Advertisement
Establishment of IP Connectivity
Establishment of IP Connectivity
CARD Previous AP Info
CARD Neighbor AP Id

FIG 4

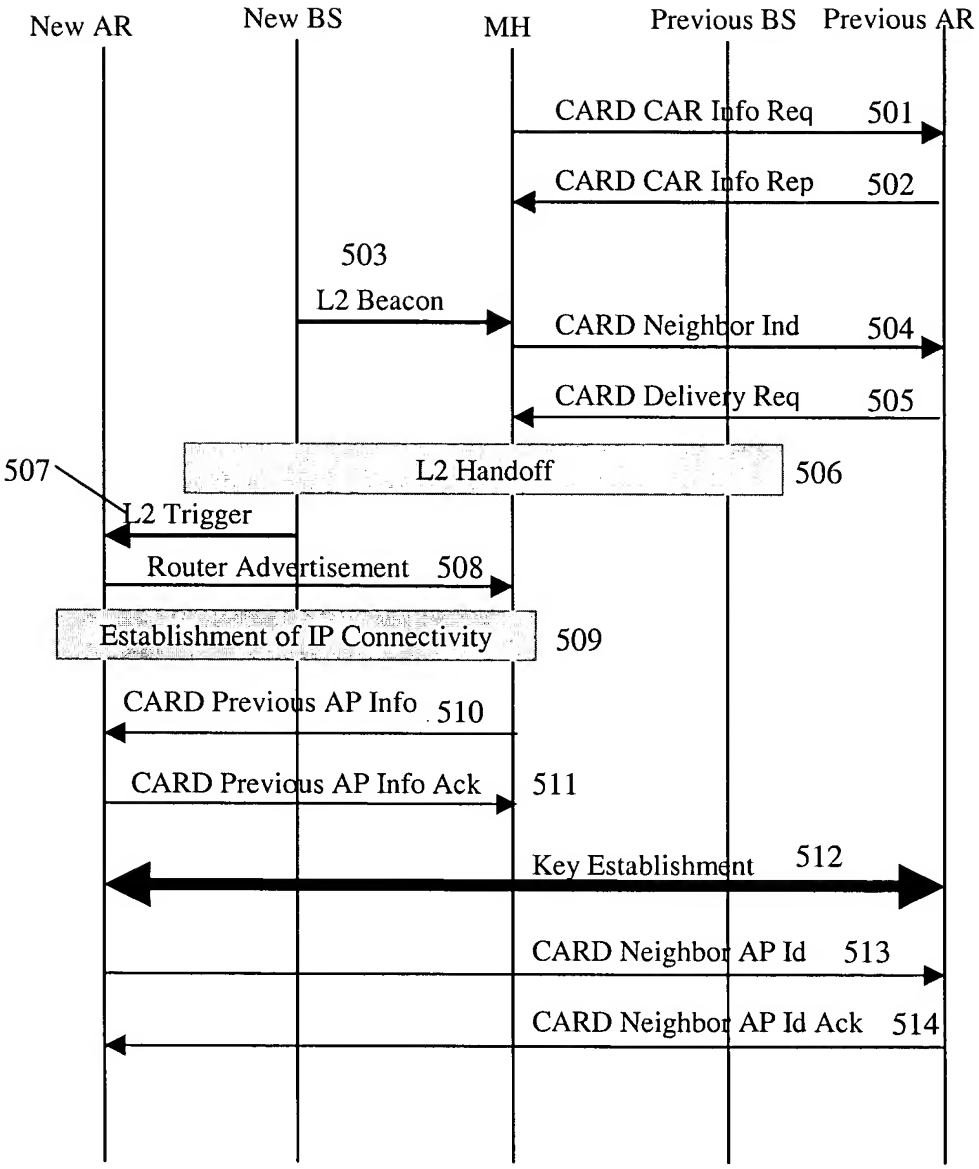
New AR
New BS
MH
Previous BS
Previous AR
CARD CAR Info Req
501
CARD CAR Info Rep
502
503
L2 Beacon
CARD Neighbor Ind
504
CARD Delivery Req
505
507
L2 Handoff
506
L2 Trigger
Router Advertisement
508
Establishment of IP Connectivity
509
CARD Previous AP Info
510
CARD Previous AP Info Ack
511
Key Establishment
512
CARD Neighbor AP Id
513
CARD Neighbor AP Id Ack
514

FIG 5

Message ID	Sending MH's IP Address	Receiving AR' IP Address	Filter

FIG 6A

Message ID	Sending AR's IP Address	Receiving MH' IP Address	CAR Info

FIG 6B

Message ID	Sending MH's IP Address	Receiving AR' IP Address	BS's MAC Address	Air Link Type	Link Specific Options

FIG 6C

Message ID	Sending AR's IP Address	Receiving MH's IP Address	**Ticket**

FIG 6D

Message ID	Sending MH' IP Address	Receiving AR' IP Address	Ticket	Prev AR's IP Address	Prev BS's MAC Address
Air Link Type	Link Specific Options				

FIG 6E

Message ID	Sending AR' IP Address	Receiving MH's IP Address	Result

FIG 6F

Message ID	Sending AR's IP Address	Receiving AR's IP Address	MH's IP Address	Ticket	**MH's Physical ID**
MH's Stay Time	**AR Certificate**				

FIG 6G

Message ID	Sending AR's IP Address	Receiving AR's IP Address	Result	**AR Certificate**

FIG 6H

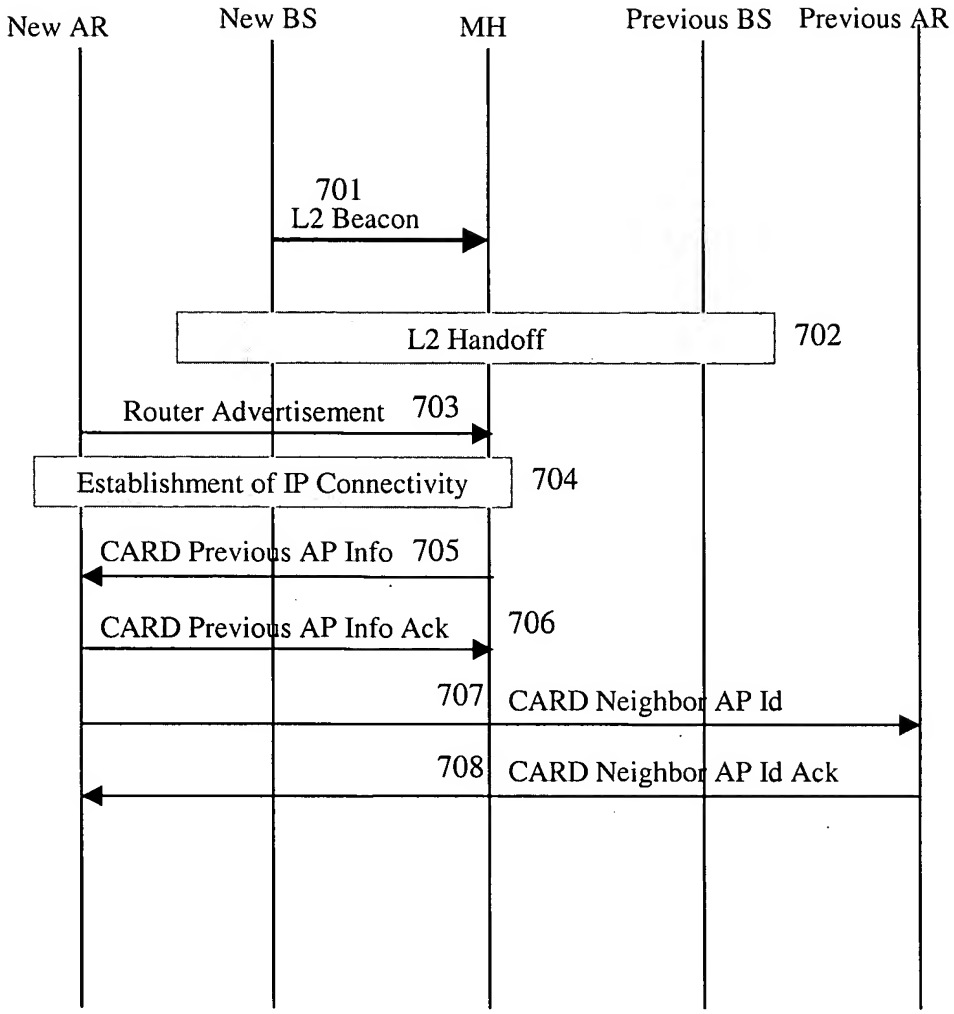
New AR
New BS
MH
Previous BS
Previous AR
701
L2 Beacon
L2 Handoff
702
Router Advertisement 703
Establishment of IP Connectivity
704
CARD Previous AP Info 705
CARD Previous AP Info Ack
706
707 CARD Neighbor AP Id
708 CARD Neighbor AP Id Ack

FIG 7

Message ID	Sending MH's IP Address	Receiving AR's IP Address	**MH Class ID Card**	Prev AR's IP Address	Prev BS's MAC Address
Air Link Type	Link Specific Options				

FIG 8A

Message ID	Sending AR' IP Address	Receiving MH's IP Address	Result	**MH's New Class ID Card**

FIG 8B

Message ID	Sending AR's IP Address	Receiving AR's IP Address	MH's IP Address	**AR Certificate**

FIG 8C

Message ID	Sending AR's IP Address	Receiving AR's IP Address	Result	**AR Certificate**

FIG 8D

AR IP Address	BS MAC Address	Attribute Name	Attribute Value
128.45.111.12	10:23:43:1F:00:45	Link Type	802.11b
		Channel	2412 kHz
		Refresh Time	12123123443
		…	….
	10:45:33:10:3A:3F	Link Type	802.11b
		Channel	2437 kHz
		Refresh Time	14198321083
		…	….
128.45.100.50	3F:12:45:45	Link Type	GSM
		Authentication	SIM
		Carrier	
		Refresh Time	12124123453
		…	….
145.33.129.1	12:4F:3A:34:00:45	Link Type	Bluetooth
		Refresh Time	12434924098
		…	….
	10:23:A0:10:34:11	Link Type	802.11a
		Refresh Time	12472098098
		…	….

FIG 9

AR IP Address	BS MAC Address	Attribute Name	Attribute Value
128.45.111.12	10:23:43:1F:00:45	Link Type	802.11b
		…	….
	10:45:33:10:3A:3F	Link Type	802.11b
		…	….
128.45.100.50	3F:12:45:45	Link Type	GSM
		Authentication	SIM
		…	….
145.33.129.1	12:4F:3A:34:00:45	Link Type	Bluetooth
		…	….
	10:23:A0:10:34:11	…	….

CAR table

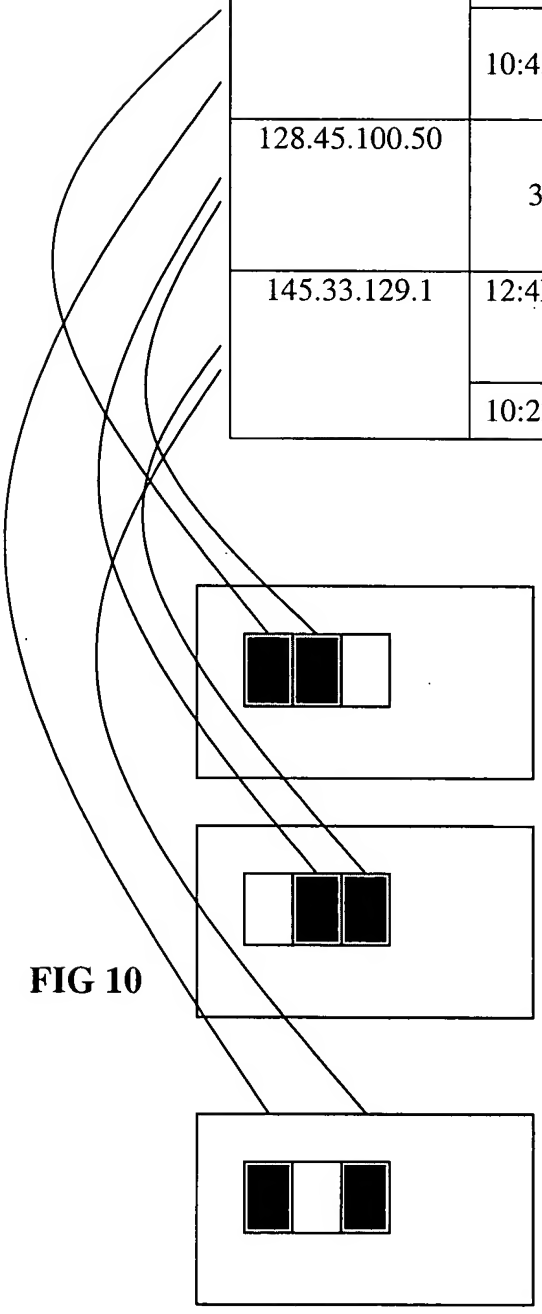

FIG 10